# COLORado 2 Zoom IP

User Manual

Edition Notes

The COLORado™ 2 Zoom IP User Manual Rev. 3 covers the description, safety precautions, installation, programming, operation, and maintenance of the COLORado™ 2 Zoom IP. Chauvet released this edition of the COLORado™ 2 Zoom IP User Manual in November 2014.

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Document Printing

For better results, print this document in color, on letter size paper (8.5 x 11 in), double-sided. If using A4 paper (210 x 297 mm), configure your printer to scale the content accordingly.

Intended Audience

Any person in charge of installing, operating, and/or maintaining this product should completely read through the guide that shipped with the product, as well as this manual, before installing, operating, or maintaining this product.

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Document Revision

The COLORado™ 2 Zoom IP User Manual Rev. 3 supersedes all previous versions of this manual. Discard any older versions of this manual and replace with this version.

Author	Date	Editor	Date Finalized
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- Signal Extension Cable
- Accessory Holder
- Warranty Card
- Quick Reference Guide

Claims
Carefully unpack the product immediately and check the box to make sure all the parts are in the package and are in good condition.

If the box or the contents (the product and included accessories) appear damaged from shipping or show signs of mishandling, notify the carrier immediately, not Chauvet. Failure to report damage to the carrier immediately may invalidate your claim. In addition, keep the box and contents for inspection.

For other issues, such as missing components or parts, damage not related to shipping, or concealed damage, file a claim with Chauvet within 7 days of delivery.

Manual Conventions

Convention	Meaning
1~512	A range of values in the text
50/60	A set of mutually exclusive values in the text
<SET>	A button on the product's control panel
Settings	A product function or a menu option
MENU>Settings	A sequence of menu options
1~10	A range of menu values from which to choose in a menu
Yes/No	A set of two mutually exclusive menu options in a menu
ON	A unique value to be entered or selected in a menu

Symbols

Symbols	Meaning
⚠	Critical installation, configuration, or operation information. Failure to comply with this information may cause the product not to work, damage third-party equipment, or cause harm to the operator.
ⓘ	Important installation or configuration information. Failure to comply with this information may keep the product from working.
📝	Useful information.

📝 **The term "DMX" used throughout this manual refers to the USITT DMX512-A digital data transmission protocol.**

Product at a Glance

Use on Dimmer	✘	Auto Programs	P
Outdoor Use	P	Auto-Ranging Power Supply	P
Sound Activated	✘	Replaceable Fuse	✘
DMX	P	User Serviceable	✘
Master/Slave	P	Duty Cycle	✘

Safety Notes

Read all the following Safety Notes before working with this product. These notes include important information about the installation, usage, and maintenance of this product.

This product contains no user-serviceable parts. Any reference to servicing in this User Manual will only apply to properly trained Chauvet certified technicians. Do not open the housing or attempt any repairs.

All applicable local codes and regulations apply to proper installation of this product.

Personal Safety

- Avoid direct eye exposure to the light source while the product is on.
- Always disconnect this product from its power source before servicing.
- Always connect this product to a grounded circuit to avoid the risk of electrocution.
- Do not touch this product's housing during operation because it may be very hot.

Mounting and Rigging

- The product is not intended for permanent installation.
- DO NOT submerge this product (IP65). Temporary outdoor operation is fine.
- CAUTION: When transferring product from extreme temperature environments, (e.g. cold truck to warm humid ballroom) condensation may form on the internal electronics of the product. To avoid causing a failure, allow product to fully acclimate to the surrounding environment before connecting it to power.
- Make sure there are no flammable materials close to this product while it is operating.
- When hanging this product, always secure to a fastening device using a safety cable (included).

Power and Wiring

- Always make sure you are connecting this product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
- Never connect this product to a dimmer pack or rheostat.
- Never disconnect this product by pulling or tugging on the power cable.

Operation

- Do not operate this product if you see damage on the housing, lenses, or cables. Have the damaged parts replaced by an authorized technician at once.
- To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.
- Do not cover the ventilation slots when operating to avoid internal overheating.
- The maximum ambient temperature is 104° F (40° C). Do not operate this product at a higher temperature.
- In case of a serious operating problem, stop using this product immediately!

In the unlikely event that your Chauvet product may require service, contact Chauvet Technical Support.

Expected LED Lifespan

LEDs gradually decline in brightness over time, mostly because of heat. Packaged in clusters, LEDs exhibit higher operating temperatures than in ideal, single-LED conditions. For this reason, using clustered LEDs at their fullest intensity significantly reduces the LEDs' lifespan. Under normal conditions, this lifespan can be 40,000 to 50,000 hours. If extending this lifespan is vital, lower the operating temperature by improving the ventilation around the product and reducing the ambient temperature to an optimal operating range. In addition, limiting the overall projection intensity may also help to extend the LEDs' lifespan.

2. Introduction

Description   The COLORado™ 2 Zoom IP is an RGBW LED wash product with color mixing and zoom control. This product consists of a single module that houses the internal power supply, the control panel, the LED drivers, the LED boards, and motorized moving lenses, as well as the power and signal connectors. The COLORado™ 2 Zoom IP features a variable zoom, which enables the user to change the beam angle of the unit via DMX or control panel, and one double-bracket yoke that can serve as a floor mount or hanging support bracket.

Features
- 3, 4, 5, 6, or 12-channel RGBW LED wash product
- Operating modes:
  - 3-channel: RGB
  - 3-channel: HSV
  - 4-channel: Dimmer, RGB
  - 4-channel: RGBW
  - 5-channel: Dimmer, RGBW
  - 6-channel: Dimmer, RGBW, strobe
  - 12-channel: Dimmer, RGBW, color macro, strobe, auto/custom, auto speed, dimmer speed, zoom, zoom reset
- RGBW color mixing and zoom control with or without DMX control
- Color temperature presets (2,800~10,000 K)
- 7.7°-35° zoom control with or without DMX control
- Built-in automated programs via master/slave or DMX
- Recall custom programs via master/slave or DMX
- Five distinct dimming curves
- RGBW LEDs
- Electronic dimmer
- Color macros with speed adjustment included
- Electronic power supply
- 5-pin DMX input and output connectors
- Additional power output: 7 units @ 120 V (max.), 13 units @ 208 V (max.), 15 units @ 230 V (max.)
- LED display with password protection
- Gel frame holder (4 mm max thickness)
- IP65, Temporary use outdoors
- Double-bracket yoke doubles as floor stand
- Color calibration
- Flicker-free operation for HD Video

Overview

Power In ——— POWER IN POWER OUT ——— Power Out

IP-Rated Cover ———

Rear View (w/ IP cover)

DMX In ——— POWER IN POWER OUT ——— DMX Out

DMX IN DMX OUT

Control Panel ——— MENU ENTER UP DOWN

Rear View

Safety Cable Loop ———

Adjustment Knob

Side View

Dimensions

2.83 in
72 mm

9.33 in
237 mm

9.06 in
230 mm

12.24 in
311 mm

11.89 in
302 mm

POWER IN   POWER OUT

DMX IN   DMX OUT

MENU ENTER UP DOWN
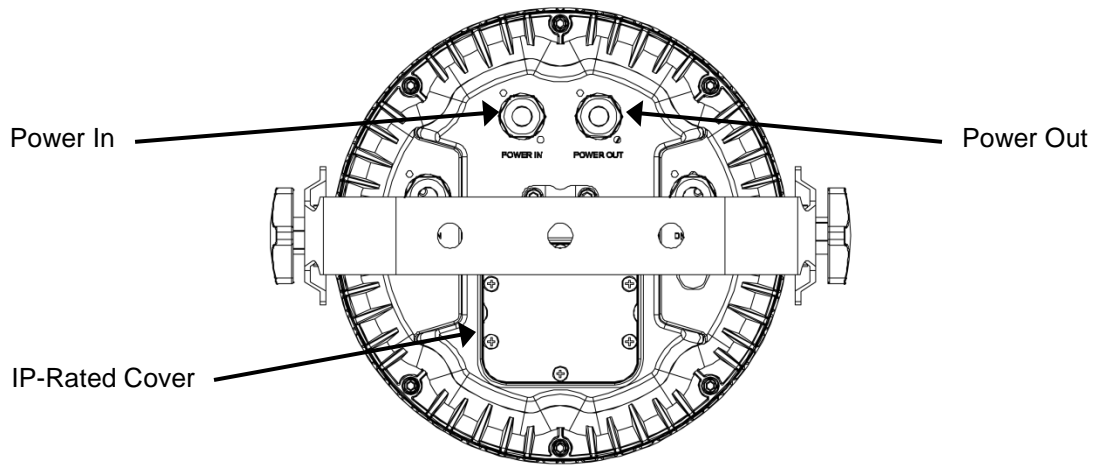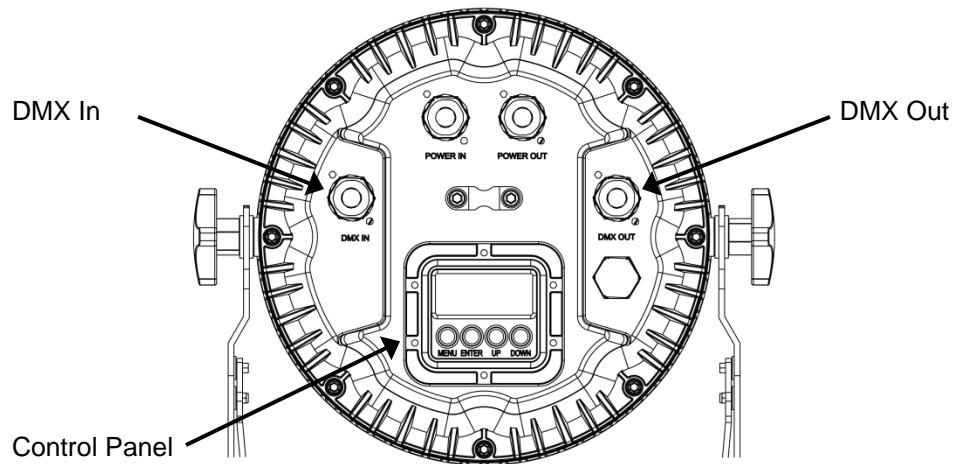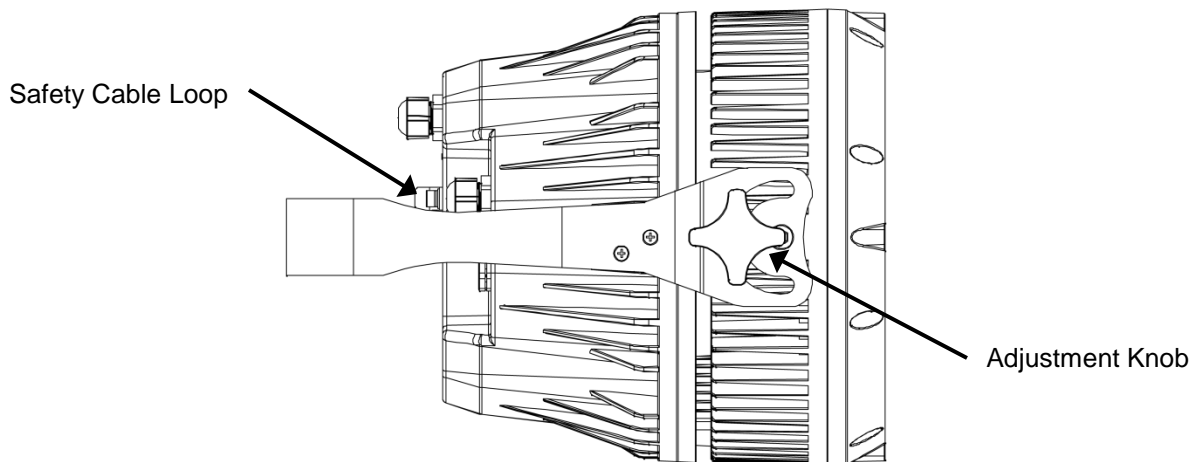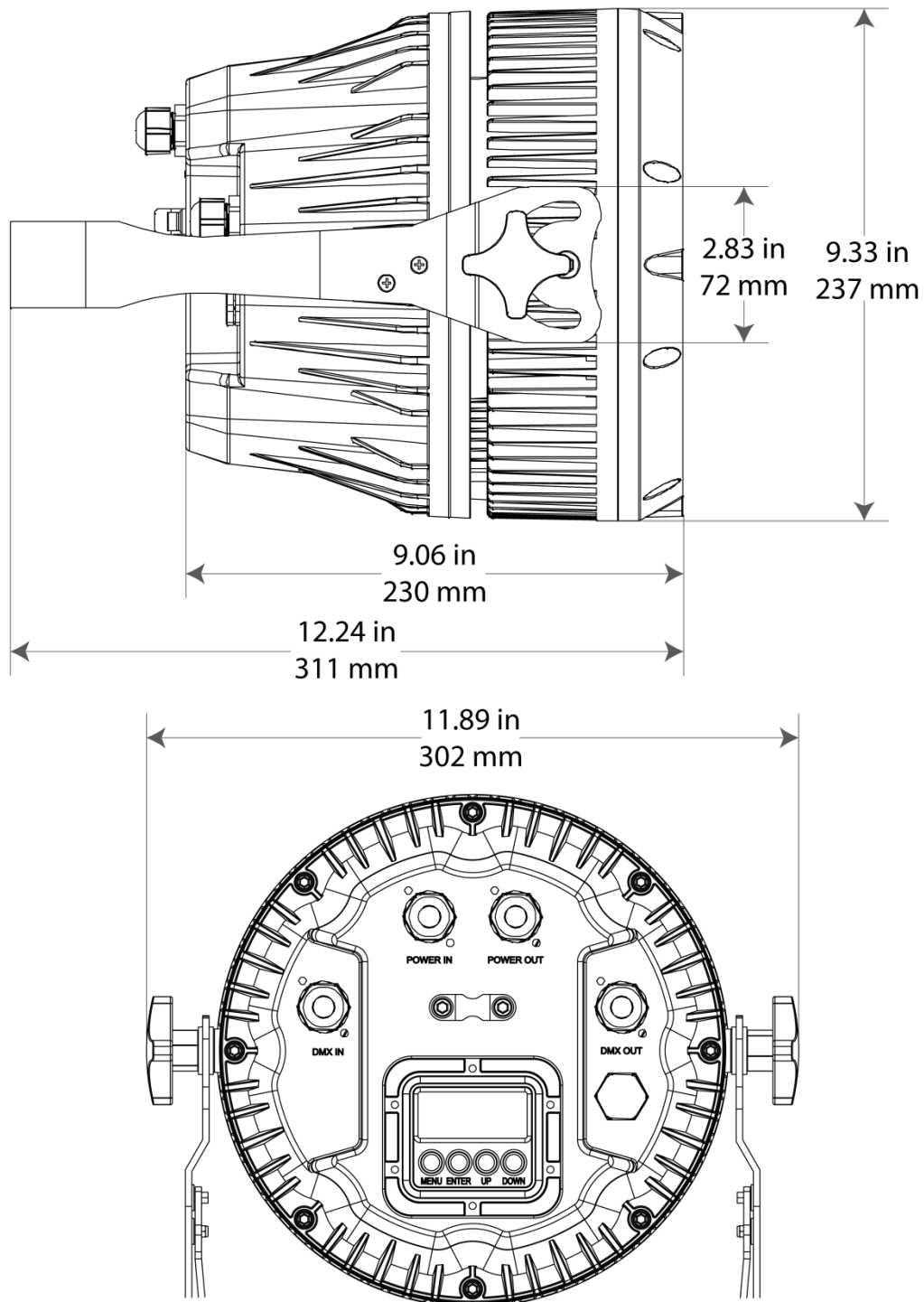
3. Setup

AC Power Each COLORado™ 2 Zoom IP has an auto-ranging power supply that works with an input voltage range of 100~240 VAC, 50/60 Hz. To determine the power requirements for each COLORado™ 2 Zoom IP, refer to the label affixed to the product. You can also refer to the Technical Specifications in this manual.

The listed current rating indicates the maximum current draw during normal operation. For more information, you may download Sizing Circuit Breakers from the Chauvet website: www.chauvetpro.com.

Always connect this product to a protected circuit with an appropriate electrical ground to avoid the risk of electrocution or fire.

Never connect this product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.

AC Plug The COLORado™ 2 Zoom IP comes with an IP66 power input cord terminated with a proprietary IP66 connector and an IP66 to Edison power cord adapter. If the power cord adapter that came with your product has no plug or you need to change the Edison plug, use the table below to wire the new plug.

Connection	Wire (U.S.)	Wire (Europe)	Screw Color
AC Live	Black	Brown	Yellow or Brass
AC Neutral	White	Blue	Silver
AC Ground	Green/Yellow	Green/Yellow	Green

Power Linking The COLORado™ 2 Zoom IP supports power linking. You can power link up to 7 products @ 120 VAC, 13 products @ 208 VAC, or 15 products @ 230 VAC.

This product comes with a power input cord. This product does not come with a power linking cable; however, a power linking cable is available as an option.

DMX Linking
You can link the COLORado™ 2 Zoom IP to a DMX controller using a standard DMX serial connection. If using other DMX compatible products with the COLORado™ 2 Zoom IP, you can control each individually with a single DMX controller.

DMX Modes
The COLORado™ 2 Zoom IP uses the standard DMX data connection for the **TOUR**, **ARC.1**, **AR1.D**, **ARC2**, **AR2.D**, **AR2.S**, and **HSV** DMX modes.

· Refer to the Introduction chapter for a brief description of these modes.
· Refer to the Operation chapter to learn how to configure the COLORado™ 2 Zoom IP to work in these modes.
· The DMX Values section will provide you with detailed information regarding the DMX modes.

Master/Slave Connectivity
The Master/Slave mode allows a COLORado™ 2 Zoom IP (the "master product") to control one or more COLORado™ 2 Zoom IPs (the "slave products") without a DMX controller. One COLORado™ 2 Zoom IP becomes the master product when running an Auto or Custom program, or by being in STATIC mode.

You must configure each slave product's control panel to operate in SLAVE mode. During Master/Slave operation, the slave products will operate in unison with the master product.

DO NOT connect a DMX controller to products operating in Master/Slave mode. The DMX controller signals may interfere with the signals from the master product.

The Operation section of this manual provides detailed instructions on how to configure the Master and Slave products.

If you are not familiar with or need more information about DMX standards, Master/Slave connectivity, or the DMX cables needed to link this product to a DMX controller, download the DMX Primer from the Chauvet website: www.chauvetpro.com.

Mounting

Before mounting this product, read and follow the Safety Notes.

Orientation Always mount this product in a safe position and make sure there is adequate room for ventilation, configuration, and maintenance.

Rigging The COLORado™ 2 Zoom IP consists of a double-yoke bracket and the body of the product Chauvet recommends using the following general guidelines when mounting this product.

- The product is not intended for permanent installation.
- When selecting an installation location, consider easy access to this product for operation, programming adjustments, and routine maintenance.
- Make sure to mount this product away from any flammable material as indicated in the Safety Notes.
- Never mount in places where rain, high humidity, extreme temperature changes, or restricted ventilation may affect the product.
- If hanging this product, make sure that the mounting location can support the product's weight. See the Technical Specifications for the weight-bearing requirements of this product.
- When hanging this product, always secure to a fastening device using a safety cable (included).

Procedure The COLORado™ 2 Zoom IP comes with a double-yoke bracket to which you can either attach mounting clamps for hanging or simply use as a floor stand. You must supply your own mounting clamps. Make sure the clamps are capable of supporting the weight of this product. Use at least one mounting point per product.

Clamp

Safety Cable

Mounting Diagram

Floor Mounting   **Overhead Mounting**
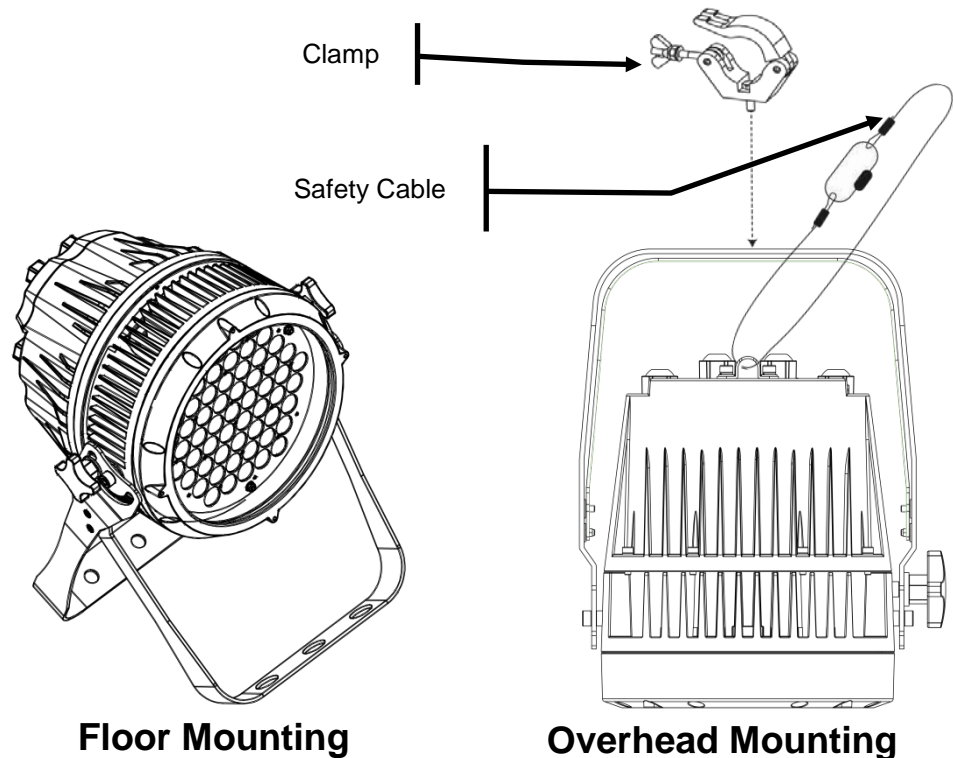
4. Operation

Control Panel Description

Button	Function
<MENU>	Exits from the current menu or function
<ENTER>	Enables the currently displayed menu or sets the currently selected value in to the current function
<UP>	Navigates upward through the menu list and increases the numeric value when in a function
<DOWN>	Navigates downward through the menu list and decreases the numeric value when in a function

Control Options

You can set the COLORado™ 2 Zoom IP start address in the 001~512 DMX range. This enables control of up to 42 products in the 12-channel **TOUR** personality.

Programming

Refer to the Menu Map to understand the menu options. The menu map shows the main level and a variable number of programming levels for each option.

- To go to the desired main level, press **<MENU>** repeatedly until the option shows on the display. Press **<ENTER>** to select. This will take you to the first programming level for that option.
- To select an option or value within the current programming level, press **<UP>** or **<DOWN>** until the option shows on the display. Press **<ENTER>** to select. In this case, if there is another programming level, you will see that first option, or you will see the selected value.
- Press **<MENU>** repeatedly to exit to the previous main level.

DMX Personality

This setting allows you to choose a particular DMX personality.

1. Go to the **PERS** main level.
2. Select the desired personality (**TOUR**, **ARC.1**, **AR1.D**, **ARC.2**, **AR2.D**, **AR2.S**, or **HSV**).

- **See the DMX Values section for the highest starting address you can select for each personality.**
- **Make sure that the starting addresses on the various products do not overlap due to the new personality setting.**

DMX Control In this mode, each product will respond to a unique starting address from the DMX controller. All products with the same starting address will respond in unison.
1. Select a DMX personality as shown in DMX Personality.
2. Set the running mode:
    a. Go to the **RUN** main level.
    b. Select the **DMX** programming level.
3. Set the starting address:
    a. Go to **DMX** main level.
    b. Select the starting address (**001~512**).

The highest recommended starting address for each DMX mode is as follows:

DMX Mode	DMX Address	DMX Mode	DMX Address	DMX Mode	DMX Address
TOUR	501	**ARC.2**	509	**HSV**	510
ARC.1	510	**AR2.D**	508	**AR2.S**	507
AR1.D	509				

Loss of Signal Setting This setting controls how the product will respond when the DMX signal is lost.
1. Go to the **SET** main level, then select **DERR**.
    a. Select **SAVE** to make the product use the last command used when the signal is lost.
    b. Select **BLAC** to turn off the all the LEDs when the signal is lost.

Zoom Limit Setting This setting allows you to limit the zoom range using three different modes.
Basic mode is the default setting and allows the zoom to be moved full range (**000~255**) and has no adjustable limit.
Position 1 and position 2 modes allow you to set limits on how far the zoom moves.
1. Set the mode to be used:
    a. Go to the **SET** main level.
    b. Select **ZOOM**.
    c. Select a mode (**BASE**, **POS.1**, or **POS.2**).
2. Set the limit for each mode:
    a. Go to the **CAL** main level.
    b. Enter the master access password as described in Control Panel Lock.
    c. When **CAL** shows, press <**UP**>.
    d. Go to the **ZOOM**.
    e. Select a mode (**POS.1** or **POS.2**).
    f. Select a zoom limit value (**P.000~255**).

Static Color The Static Color mode allows for permanent RGBW color mixing without a DMX controller.
1. Go to the **STAT** main level.
2. Select the desired color and beam angle (**R**, **G**, **B**, **W**, or **Z**).
3. Select the desired color or beam angle value (**000~255**).
4. Repeat for the other colors.
5. Select **S**.
6. Select the desired frequency (**00~20**).

Auto Programs Auto programs allow for dynamic RGBW color mixing without a DMX controller.
1. Go to **AUTO**.
2. Select the desired auto (**AT. 01~10**) or custom program (**PR. 01~10**).

You cannot edit any of the auto programs (AUTO 01~10). However, you can edit the custom programs (PR.01~10). See Edit Customs below for details.

Edit Customs This setting allows the programming of up to 30 scenes for each of the 10 customizable programs, including colors and effects.
1. Go to the **EDIT** main level.
2. Select the desired auto program (**PR. 01~10**).
3. Select the desired scene (**SC. 01~30**).
4. Select the desired color, zoom, or effect (**R**, **G**, **B**, **W**, **S**, **T**, **Z**, or **F**).
5. Select the color or effect value (**000~255** for colors, zoom, and timers, or **00~20** for strobe).
6. Repeat for the other colors or effects.
7. Return to the scene (**SC. 01~30)** level.
8. Repeat the settings of colors and effects for the other scenes.

Master/Slave The Master/Slave mode allows a group of COLORado™ 2 Zoom IPs (the slave products) to simultaneously duplicate the output of another COLORado™ 2 Zoom IP (the master product) without a DMX controller.
1. Set each of the slave products:
   a. Go to **RUN**.
   b. Select **SLAV**.
2. Set the master product:
   a. Set the running mode to **DMX** as explained in DMX Control.
   b. Select an auto or custom program as explained in Auto Programs above, or a static mix of colors.

· **The master product is the one that runs a program whether in Auto, Custom or Static Color mode.**
· **Do not connect a DMX controller to the products configured for Master/Slave operation. The DMX controller may interfere with signals from the master product.**
· **The master product should be the first product in the daisy chain.**

Color Settings The **COLOR** setting determines how the COLORado™ 2 Zoom IP generates the white color based on various RGB settings.
1. Go to the **SET** main level.
2. Select **COLR**.
3. Select **OFF**, **RGB.W**, or **UC**.

OFF:	When all the RGB faders are set to **255**, the output is maximum, although the resulting white color may not be balanced.
RGB.W:	When all the RGB faders are set to **255**, the resulting output is defined by the configured White color (see White Calibration).
UC:	When all the RGB faders are set to **255**, the output matches that of less efficient products (Universal Color).

Dimmer Curves This setting determines how fast the output of the COLORado™ 2 Zoom IP changes when you modify the values of the Red, Green, Blue, White, and Dimmer faders. This setting provides four different options to simulate the dimming curve of an incandescent lighting product.

1. Go to the **SET** main level.
2. Select **DIM**.
3. Select a dimmer curve (**OFF**, **DIM1**, **DIM2**, **DIM3**, or **DIM4**).

OFF:	The output is proportional (linear) to the Dimmer and RGBW channel values.
DIM1~4:	The output follows the Dimmer and RGBW channel values based on the corresponding dimmer curve, being **DIM1** the fastest and **DIM4** the slowest.

Control Panel Lock This setting enables you to activate or disable the control panel lock, which keeps non-authorized personnel from changing the product's settings.

1. Go to the **KEY** main level.
2. Select **ON** or **OFF**.

When the control panel lock is active, the product will prompt you to enter the password after 30 seconds of control panel inactivity or after turning on the product.

Password After being prompted to enter the password:

Press **<UP>, <DOWN>, <UP>, <DOWN>, <ENTER>**

Program Upload This option allows you to copy the custom programs of one COLORado™ 2 Zoom IP onto other COLORado™ 2 Zoom IP by using the Master/Slave mode.

1. Configure and connect the products in a Master/Slave arrangement, where the master product has the custom programs you want to transfer to the slave products.
2. From the master product, go to the **SET** main level.
3. Select **UPLD**.
4. When **PASS** shows, press **<ENTER>**.
5. Enter the master access password as shown in Control Panel Lock.
6. When **SEND** shows, press **<ENTER>** to start the upload.
7. Wait for the upload process to finish (the display will show **END** before continuing or turning the products off.

The Master/Slave products will provide the status of the process by lighting up as follows:

· **Yellow indicates that the upload process is running.**
· **Green indicates that the upload process completed successfully.**
· **Red indicates that the upload process failed due to an error. Recheck all cable connections and restart the process. If the issue persists, contact Chauvet Technical Support.**

DO NOT upload the data from a COLORado™ 2 Zoom IP to a different product. The other product may become inoperative.

Reset This setting allows you to reset the COLORado™ 2 Zoom IP to the default values, including the custom programs.
1. Go to the **SET** main level.
2. Select **REST**.
3. When **PASS** shows, press **<ENTER>**.
4. Enter the master access password as described in <u>Control Panel Lock</u>.
5. Wait for the reset process to finish.

Whites Setting This setting allows you to select and edit the temperature of the white colors used in channel 6 (Macros) when in the TOUR mode. You can also define the maximum RGB values when RGB to White (**RGB.W**) is active.
1. Go to the **CAL** main level.
2. Enter the master access password as described in <u>Control Panel Lock</u>.
3. When **CAL** shows, press **<UP>**.
4. Go to **WT**.
5. Select a white color (**WH.01~11**).
6. Select a value for each color (**R.000~255**), (**G.000~255**), (**B.000~255**), and (**W.000~255**).
7. Repeat for the other white colors.

White Calibration This setting allows you to select the white color shown by the COLORado™ 2 Zoom IP when the color setting is **RGB.W** and the DMX controller's Red, Green, and Blue faders are set to "255."
1. Go to the **CAL** main level.
2. Enter the master access password as described in <u>Control Panel Lock</u>.
3. When **CAL** shows, press **<UP>**.
4. Go to **RGBW**.
5. Select **RGB.W** level.
6. Select a value for each color (**R.000~255**), (**G.000~255**), and (**B.000~255**).

When selecting CAL > RGBW > RGB.W, you will only be able to define the values of RED, GREEN, and BLUE.

The values of RED, GREEN, and BLUE configured from CAL > RGBW > RGB.W will define the color temperature shown when the RGB faders are set to "255" if SET > COLR > RGBW is active.

TOUR Notes	These notes clarify the way the **TOUR** DMX personality works.
Master Dimmer	· Channel 1 controls the intensity of the currently projected color.
	· When the slider is at the highest position (**100%**), the intensity of the output is at maximum.
Red, Green, Blue, and White Color Selection	· Channels 2 through 5 control the intensity ratio of each of the Red, Green, Blue, and White LEDs.
	· When these channels are at the highest position (**100%**), the intensity of each color is at maximum if **SET > COLR** is **OFF**.
	· You can combine channels 2 through 5 to create over one trillion colors.
Color Macros	· Channel 6 selects the required Color Macro.
	· Channel 6 has priority over channels 2 through 5.
	· Channel 1 controls the intensity of the Color Macro.
Strobe	· Channel 7 controls the strobe frequency (not the intensity) of channels 2 through 6.
	· Channel 7 can strobe channels 2 through 5 when not running macros, allowing the individual faders (R, G, B, and W), as well as channel 1 (D), to control the output intensity.
	· Channel 7 can strobe channel 6 when running macros, allowing channel 6 to select the macro and channel 1 to control the output intensity.
Auto/Custom	· Channel 8 selects the preset auto programs **AT.01~10** or the custom programs **PR.01~10**.
	· When activating the custom Auto programs **PR.01~10**, you can control the Step Time and Fade Time using channels 2 and 3, respectively.
	· Channel 8 has priority over channels 2 through 7.
	· Channel 9 controls the speed at which each auto program plays.
Dimmer Speed	· Channel 10 selects the Dimmer mode and speed. Dimmer mode provides four different options to simulate the dimming curve of an incandescent lighting product.
	· When Dimmer is set to **OFF,** the changes in the RGBW and Master Dimmer faders are linear.
	· When Dimmer is set to **DIM1~DIM4**, **DIM1** is the fastest dimmer curve and **DIM4** is the slowest.
Zoom Selection	· Channel 11 controls the zoom function.
Zoom Reset	· Channel 12 resets the zoom function to the starting position.

Menu Map

Main Level	Programming Levels					Description
STAT	**R.**	**000~255**				Combine Red, Green, Blue, and White to make a custom color
	G.					
	B.					
	W.					
	S.	**00~20**				Selects the strobe frequency (0~20 Hz)
	Z.	**000~255**				Changes the beam angle
AUTO	**AT.**	**01~10**				10 automatic programs
	PR.					10 customizable programs
RUN	**DMX**					DMX mode
	SLAV					Master/Slave mode
DMX	**D.**	**000~512**				Selects the DMX starting address
PERS	**TOUR**					12 Channels: R/G/B/W, dimmer, strobe, color macro, auto/custom, dimmer speed, auto speed, zoom, zoom reset
	ARC.1					3-channel: R/G/B control
	AR1.D					4-channel: R/G/B, dimmer
	ARC.2					4-channel: R/G/B/W control
	AR2.D					5-channel: R/G/B/W, dimmer
	AR2.S					6-channel: R/G/B/W, dimmer, strobe
	HSV					3-channel: HSV control
EDIT	**PR.**	**01~10**	**SC.**	**01~30**	**R.**	Combine Red, Green, Blue, and White to generate a custom color (0~100%)
					G.	
					B.	
					W.	
					Z.	Controls the beam angle
					S. / **00~20**	Selects the strobe frequency (0~20 Hz)
					T / **000~255**	Defines the step duration (0~100%)
					F	Defines the fade duration (0~100%)

Menu Map (Cont.)

Main Level	Programming Levels					Description
SET	**UPLd.**		**….** (Enter Password)			Uploads custom programs to other COLORado™ 2 Zoom IPs
	REST.		**….** (Enter Password)			Defaults product to factory settings
	DERR		**BLAC**			All LEDs turn off when DMX signal is lost
			SAVE			All LEDs stay on the last command used when the DMX signal is lost
	COLR.		**OFF**			RGB set to "255" = max. output
			RGBW.			RGB set to "255" = balanced white
			UC.			Universal color balance
	DIM.		**OFF**			No dimmer
			DIM1.			Dimmer curve
			DIM2.			
			DIM3.			
			DIM4.			
	ZOOM		**BASE**			Sets default zoom position (full movement)
			POS.1			Sets position 1 setting for zoom limit
			POS.2			Sets position 2 setting for zoom limit
CAL	**PASS**	**CAL**	**WT**	**WH 1~11**	**R.** 000~ 255 **G.** **B.** **W.**	Modifies the color macros used in channel 6 of the **TOUR** personality
			RGBW	**RGB. W**	**R.** 000~ 255 **G.** **B.**	Defines the color temperature used when **COLO.** is set to **RGBW**.
			ZOOM	**POS.1**	000~ 255	Sets min/max position of zoom
				POS.2		
KEY	**ON**					Turns the password on or off
	OFF					

DMX Values

TOUR Channel	Function	Value	Percent/Setting
1	Dimmer	000 ó 255	0~100%
2	Red	000 ó 255	0~100%
	Step Time		When **CUS. 01-10** in **CH. 8** is activated
3	Green	000 ó 255	0~100%
	Step Time		When **CUS. 01-10** in **CH. 8** is activated
4	Blue	000 ó 255	0~100%
5	White	000 ó 255	0~100%
6	Color Macro + White Balance	000 ó 010	No Function
		011 ó 030	R: 100%　　G: 0~100%　　B: 0
		031 ó 050	R: 100%~0　G: 100%　　B: 0
		051 ó 070	R: 0　　　　G: 100%　　B: 0~100%
		071 ó 090	R: 0　　　　G: 100%~0　B: 100%
		091 ó 110	R: 0~100%　G: 0　　　　B: 100%
		111 ó 130	R: 100%　　G: 0　　　　B: 100%~0
		131 ó 150	R: 100%　　G: 0~100%　B: 0~100%
		151 ó 170	R: 100%~0　G: 100%~0　B: 100%
		171 ó 200	R: 100%　　G: 100%　　B: 100%　　W: 100%
		201 ó 205	White 1
		206 ó 210	White 2
		211 ó 215	White 3
		216 ó 220	White 4
		221 ó 225	White 5
		226 ó 230	White 6
		231 ó 235	White 7
		236 ó 240	White 8
		241 ó 245	White 9
		246 ó 250	White 10
		251 ó 255	White 11:
7	Strobe	000 ó 009	No Function
		010 ó 255	0~20 Hz
8	Auto + Custom Programs	000 ó 040	No Function
		041 ó 049	Auto 1
		050 ó 059	Auto 2
		060 ó 069	Auto 3
		070 ó 079	Auto 4
		080 ó 089	Auto 5
		090 ó 099	Auto 6
		100 ó 109	Auto 7
		110 ó 119	Auto 8
		120 ó 129	Auto 9
		130 ó 139	Auto 10
		140 ó 149	Custom 1
		150 ó 159	Custom 2
		160 ó 169	Custom 3
		170 ó 179	Custom 4
		180 ó 189	Custom 5
		190 ó 199	Custom 6
		200 ó 209	Custom 7
		210 ó 219	Custom 8
		220 ó 229	Custom 9
		230 ó 255	Custom 10

TOUR (cont.)	Channel	Function	Value	Percent/Setting
	9	Auto Speed	000 ó 255	Only when **CH. 8** is **Auto 1~10** is activated
	10	Dimmer Speed	000 ó 009	Preset dimmer speed from display menu
			010 ó 029	Linear dimmer
			030 ó 069	Nonlinear dimming curve 1 (fastest)
			070 ó 129	Nonlinear dimming curve 2
			130 ó 189	Nonlinear dimming curve 3
			190 ó 255	Nonlinear dimming curve 4 (slowest)
	11	Zoom	000 ó 255	0~100%
	12	Zoom Reset	000 ó 200	No function
			201 ó 220	Zoom reset
			221 ó 255	No function

ARC.1	Channel	Function	Value	Percent/Setting
	1	Red	000 ó 255	0~100%
	2	Green	000 ó 255	0~100%
	3	Blue	000 ó 255	0~100%

AR1.D	Channel	Function	Value	Percent/Setting
	1	Dimmer	000 ó 255	0~100%
	2	Red	000 ó 255	0~100%
	3	Green	000 ó 255	0~100%
	4	Blue	000 ó 255	0~100%

ARC.2	Channel	Function	Value	Percent/Setting
	1	Red	000 ó 255	0~100%
	2	Green	000 ó 255	0~100%
	3	Blue	000 ó 255	0~100%
	4	White	000 ó 255	0~100%

AR2.D	Channel	Function	Value	Percent/Setting
	1	Dimmer	000 ó 255	0~100%
	2	Red	000 ó 255	0~100%
	3	Green	000 ó 255	0~100%
	4	Blue	000 ó 255	0~100%
	5	White	000 ó 255	0~100%

AR2.S	Channel	Function	Value	Percent/Setting
	1	Dimmer	000 ó 255	0~100%
	2	Red	000 ó 255	0~100%
	3	Green	000 ó 255	0~100%
	4	Blue	000 ó 255	0~100%
	5	White	000 ó 255	0~100%
	6	Strobe	000 ó 009	No Function
			010 ó 255	0~20 Hz

HSV	Channel	Function	Value	Percent/Setting
	1	Hue	000 ó 255	0~100%
	2	Saturation	000 ó 255	0~100%
	3	Value	000 ó 255	0~100%

5. Technical Information

Product Maintenance

To maintain optimum performance and minimize wear, you should clean this product frequently. Usage and environment are contributing factors in determining the cleaning frequency.

As a rule, clean this product at least twice a month. Dust build-up reduces light output performance and can cause overheating. This can lead to reduced light source life and increased mechanical wear.

To clean your product:

· Unplug the product from power.
· Wait until the product has cooled.
· Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external vents and accessible internal components.
· Clean all external surfaces with a mild solution of non-ammonia glass cleaner or isopropyl alcohol.
· Apply the solution directly to a soft, lint-free cotton cloth or a lens cleaning tissue.
· Wipe any dirt or grime to the outside edges of the lens surface.
· Gently polish the lens surfaces until they are free of haze and lint.

(i) **Always dry the external surfaces thoroughly and carefully after cleaning them.**

Returns

You must send the product prepaid, in the original box, and with the original packing and accessories. Chauvet will not issue call tags.

Call Chauvet and request a Return Merchandise Authorization (RMA) number before shipping the product. Be prepared to provide the model number, serial number, and a brief description of the cause(s) for the return.

Clearly label the package with an RMA number. Chauvet will refuse any product returned without an RMA number.

DO NOT write the RMA number directly on the box. Instead, write it on a properly affixed label.

Once you have received the RMA number, include the following information on a piece of paper inside the box:

· Your name
· Your address
· Your phone number
· The RMA number
· A brief description of the problem(s)

Be sure to pack the product properly. Any shipping damage resulting from inadequate packaging will be the customer's responsibility. FedEx packing or double-boxing are recommended.

Chauvet reserves the right to use its own discretion to repair or replace returned product(s).

Technical Specifications

Dimensions and Weight	Length	Width	Height	Weight
	9.3 in (237 mm)	11.9 in (302 mm)	12.2 in (311 mm)	18.5 lbs (8.39 kg)

Note: Dimensions in inches rounded to the nearest decimal digit.

Electrical	Power Supply Type	Range	Voltage Selection
	Switching (internal)	100~240 V, 50/60 Hz	Auto-ranging

	Parameter	120 V, 60 Hz	230 V, 50 Hz
	Consumption	214 W	197 W
	Operating	1.77 A	.90 A
	Power linking products	7	15

	Power I/O	U.S./Worldwide	Europe
	Power input connector	Hardwired	Hardwired
	Power output connector	IP66	IP66
	Power cord plug	Edison (U.S.)	Local plug

Light Source	Type	Power	Lifespan
	LED	3 W	50,000 hours

	Color	Quantity	Current
	Red	17	900 mA
	Green	17	900 mA
	Blue	17	900 mA
	White	10	900 mA

Photo Optic	Parameter	Standard Optics
	Illuminance @ 5 m	5,190 lx (7.7º)~620 lx (35º)
	Beam angle	7.7º~35º
	Field angle	13.5º~48º

Thermal	Max. External Temperature	Cooling System
	113° F (45° C)	Convection

DMX	I/O Connectors	Connector Type	Channel Range
	5-pin XLR	Sockets	3, 4, 5, 6, 12

Ordering	Product Name	Item Code	Item Number
	COLORado™ 2 Zoom IP	01030676	781462210243

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Chauvet

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Outside the U.S., United Kingdom, or Ireland, contact your dealer. Follow their instructions to request support or to return a product. Visit our website for contact details.

RoHS

UL 1573
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